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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,720	08/22/2001	Shihab Al-Kuran	7174-134-999 2229	
75	90 09/08/2005		EXAMINER	
PENNIE & EDMONDS LLP			BERHANE, ADOLF D	
Counsellors at I			ART UNIT PAPER NUMBER	
New York, NY			2838	
			DATE MAILED: 09/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/042,720	AL-KURAN ET AL.					
Office Action Summary	Examiner	Art Unit	(M)				
	Adolf Berhane	2838					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addres	SS				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this commu D (35 U.S.C. § 133).					
Status .							
1) Responsive to communication(s) filed on							
	– action is non-final.						
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closed in accordance with the practice under E							
Disposition of Claims							
4) Claim(s) 1-14 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 1-14 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	·						
9) The specification is objected to by the Examine	•						
10) The drawing(s) filed on is/are: a) acce		Examiner					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcti		• •	121(d)				
11) The oath or declaration is objected to by the Ex	=	•	* *				
Priority under 35 U.S.C. § 119		•					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies of the certified copies of the priorical copies of the priorical copies of the priorical copies of the certified copies of the priorical c	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Sta	ge				
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:		2)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Sandstrom (3,447,041).

Applicant's admitted prior teaches the claimed invention except for a start-up circuit. Sandstrom teaches the use of a start-up circuit in a controlled rectifier circuit. Applicant's admitted prior art discloses in Fig. 2, a converter (200), differential oscillator (210), which produces an AC voltage, a rectifier (220) which rectifies the produced AC voltage to DC voltage consists of diodes D1 and D2 and the differential oscillator (210) consists of symmetric inductors L1 and L2, capacitors C1 and C2 and transistors M and M2. Sandstrom teaches the use of a diode as a voltage limiting diode to protect the rectifier circuit. It would have been obvious to one having an ordinary skill in the art at the time of the invention to provide a diode as taught by Sandstrom in Applicant's admitted prior art Fig.2 at the output of the rectifier circuit in order the protect the load from voltage build and protect the circuit by limiting the voltage.

3. Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Sandstrom as applied to claim 1 above, and further in view of Rozman (RE 36571).

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Applicant's admitted prior art and Sandstrom teach the claimed invention except for the rectifier circuit consisting of transistors. Rozman teaches the use of transistors in a rectifier circuit of a power converter circuit. It would have been obvious to one having ordinary skill in the art at the time of the invention to replace the rectifier diodes of Applicant's admitted prior art Fig. 2 with a rectifier transistors in order reduce the voltage drop across the rectifier and increase the efficiency of the power converter.

4. Claims 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Rozman (RE 36,571).

Applicant's admitted prior teaches the claimed invention except for the rectifier circuit consisting of transistors. Rozman teaches the use of transistors in a rectifier circuit of a power converter circuit. Applicant's admitted prior art discloses in Fig. 2, a converter (200), differential oscillator (210), which produces an AC voltage, a rectifier (220) which rectifies the produced AC voltage to DC voltage consists of diodes D1 and D2 and the differential oscillator (210) consists of symmetric inductors L1 and L2, capacitors C1 and C2 and transistors M and M2. It would have been obvious to one having ordinary skill in the art at the time of the invention to replace the rectifier diodes of Applicant's admitted prior art Fig. 2 with a rectifier transistors in order reduce the voltage drop across the rectifier and increase the efficiency of the power converter.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Adolf Berhane Primary Examiner Art Unit 2838